# 7. REVIEW OF PROCESS CHANGES POTENTIALLY SUBJECT TO PERMIT TO CONSTRUCT RULES

This section reviews the process changes identified in Section 4 as potentially subject to PTC rules. To determine if these changes are subject to PTC requirements, each change is compared with the PTC exemption criteria. If the change does not qualify for an exemption, a PTC is required for the change.

A PTC exemption can be either a Category I exemption or Category II exemption, based on IDAPA 58.01.01, Sections 221 and 222, respectively. Process changes qualifying for a Category II exemption were previously identified in Section 4 and are not considered further in this section.

To qualify for a Category I exemption, a source must meet each of three criteria (IDAPA 58.01.01.221):

- a. Below Regulatory Concern (BRC). The maximum capacity to emit of a source must be less than 10 percent of the "Significant Emission Increase" levels identified in the definition of "significant in IDAPA 58.01.01.006. Table 7-1 summarizes these criteria, and compares those criteria with emissions associated with natural gas combustion. As indicated, for sources that have emissions solely due to natural gas combustion, the gas combustion rate must be less than or equal to 8.8 MMBtu/hr for the source to qualify for a Level I exemption. At combustion rates exceeding 8.8 MMBtu/hr, emissions of carbon monoxide and mercury will exceed the Level I exemption criteria.
- b. **Radionuclides.** Radionuclide emissions must be less than certain specified levels. Because there are no identified sources of radionuclide emissions at the Rexburg Facility, this criterion is not relevant.
- c. **Toxic Air Pollutants.** The change must qualify for one of the TAP exemption criteria listed in IDAPA 58.01.01.223. Because natural gas combustion is the only source of TAP emissions in any of the process changes to be reviewed, the TAP review can be simplified by focusing on the particular TAPs from natural gas combustion that have the most stringent permitting conditions.
  - gas combustion with the TAP Screening Emission Levels of IDAPA 58.01.01. 58.01.01.585 and 586. As Table 7-2 indicates, at 0.343 MMBtu/hr, all TAP emissions are less than or equal to 10 percent of the associated Screening Emission Levels, with cadmium at exactly 10 percent of the Screening Emission Level. Accordingly, processes that combust less than 0.343 MMBtu/hr natural gas will qualify for a Below Regulatory Concern (BRC) TAP Exemption, as provided in IDAPA 58.01.01.223.01.

- O Level I Exemption TAP Emissions Below Screening Emissions Levels. As Table 7-2 indicates, TAP emissions associated with natural gas combustion not exceeding 3.43 MMBtu/hr natural gas will be less than all TAP Screening Emissions Levels. Accordingly, processes that combust less than 0.343 MMBtu/hr natural gas will qualify for a Level I TAP exemption per IDAPA 58.01.01.223.02a.
- o Level I Exemption TAP Emissions Exceeding Screening Emissions Levels. If a source's combustion rates exceeds 3.43 MMBtu/hr, to qualify for a Level I TAP exemption the predicted ambient concentrations of all TAPs must be less than the Acceptable Ambient Concentration (AAC) for those Taps listed in IDAPA 58.01.01.785 and 786. Table 7-3 shows AACs for each TAP identified as associated with natural gas combustion. Table 7-3 also shows the ratio of each AAC and the emission factor for that TAP. Because predicted impacts are directly proportional to emission rate, if the projected impact is less than the AAC for the TAP that has the lowest ratio between AAC and emission factor, projected impacts for all TAPs will be less than the associated AAC. As indicated in Table 7-2, the "worst case" TAPs are hexane and cadmium, for 24-hour and annual averaging periods, respectively.

These considerations are summarized below:

Burner Capacity	Category I Exemption Eligibility			
_	BRC Status	TAP Exemptions Status		
≤ 0.34 MMBtu/hr	Eligible	Qualifies for BRC Exemption		
≤ 3.43 MMBtu/hr	Eligible	Qualifies for Level I Exemption		
≤ 8.8 MMBtu/hr	Eligible	Qualifies for Level II Exemption if ambient concentrations are less than AAC		
> 8.8 MMBtu/hr	Not Eligible	NA		

# PERMIT TO CONSTRUCT APPLICABILITY REVIEW FOR SPACE HEATERS

Section 4 identified two space heaters potentially subject to Permit to Construct requirements and that have burner capacities between 3.43 and 8.8 MMBtu/hr. Hence, these units require impact analysis to demonstrate that they qualify for a Level I Exemption. Table 6-3 presented the results of cadmium and nitrous oxide impact analyses for all space heaters at the Rexburg Facility as a single aggregate source.

Table 6-3 shows that impacts from all space heaters combined do not exceed the AAC for either cadmium or nitrous oxide. Therefore, impacts from any individual space heater must also be less than the AAC. Accordingly, the following space heaters, which were previously

May 2004 32 030701.53

## APPLICATION FOR TIER II AIR OPERATING PERMIT – REVISION #1 REXBURG FACILITY – BASIC AMERICAN FOODS

identified as requiring significant impact analysis to qualify for a Category I Permit to Construct exemption and a Level I TAP exemption, are exempt from Permit to Construct requirements:

Heater Identification	Capacity, MMBtu/hr	Date Installed or Modified
REYCO – Shop roof	8.8	1997
REYCO – Proctor Roof	8.8	1997

Because no space heaters exceed 8.8 MMBtu/hr capacity, none of them require a PTC. BAF requests that all space heaters be aggregated under a single Category I exemption determination for purposes of reporting under IDAPA 58.01.01.223.05.

# PERMIT TO CONSTRUCT APPLICABILITY REVIEW FOR PROCESS CHANGES

Table 7-4 presents the applicability of the Category I PTC requirements to each of the process changes potentially subject to PTC rules, as identified in Section 4. As indicated in Table 7-4, the following process changes do not qualify for a PTC exemption:

- Installation of process cooler and stack 7020 (1989).
- Replacement of dryer associated with stack 7019 (1994).
- Installation of dryer and stacks 613/614, 615/616, and 638
- Installation of dryers and stacks 5034 and 5037
- Installation of dryer and stack 4000
- Replacement of dryer and installation of stacks 228 and 234

BAF hereby applies for PTCs for these process changes as part of this Tier II Permit Application.

TABLE 7-1

COMPARISON OF SIGNIFICANT EMISSION INCREASE CRITERIA AND NATURAL GAS COMBUSTION RATES

	Constituent								
	CO	NOx	Pb	TSP	PM-10	SO2	VOC	Be	Hg
"Significant Increase" Emission Rate, as defined in IDAPA 58.01.01.005.92, ton/yr	100	40	0.6	25	15	40	40	0.0004	0.1
10% of Significant Increase Emission Rate, ton/yr	10	4	0.06	2.5	1.5	4	4	0.00004	0.01
Natural Gas Combustion Emission Factor, lb/MMBtu <sup>3</sup>	0.26	0.061	4.90E-07	0.0075	0.0075	0.0024	0.0054	1.18E-08	2.60E-04
Natural Gas Firing Rate Corresponding to Emission Rate Equal to 10% of Significant Increase Emission Rate (based on 1020 Btu/scf), MMBtu/hr	8.8	15	28,000	76	46	381	169	776.	8.8

<sup>&</sup>lt;sup>3</sup> CO and NOx emission factors based on source emission measurements from other BAF stacks. All other emission factors based on AP-42.

TABLE 7-2
ESTIMATED TAP EMISSIONS ASSOCIATED WITH NATURAL GAS COMBUSTION AT 0.343 AND 3.43 MMBTU/HR

	Screening	Emission	Emissions at 0.343 N	MMBtu/hr Heat Rate	Emissions at 3.43 M	MBtu/hr Heat Rate
TAP	Emission Level, lb hr	factor, lb/MMscf		Percentage of Screening Emission		Percentage of Screening Emission
			Emission Rate, lb/hr	Level	Emission Rate, lb/hr	Level
Cadmium	3.70E-06	1.10E-03	3.70E-07	10.0%	3.70E-06	100.0%
Formaldehyde	5.10E-04	7.50E-02	2.52E-05	4.95%	2.52E-04	49.5%
Arsenic	1.50E-06	2.00E-04	6.73E-08	4.48%	6.73E-07	44.8%
Chromium(VI)	5.60E-07	7.00E-05	2.35E-08	4.20%	2.35E-07	42.0%
Nickel	2.70E-05	2.10E-03	7.06E-07	2.62%	7.06E-06	26.2%
PAHs (POM)	2.70E-06	1.14E-05	3.83E-09	0.14%	3.83E-08	1.42%
Benzene	8.00E-04	2.10E-03	7.06E-07	0.09%	7.06E-06	0.88%
Benzo(a)pyrene	2.70E-06	1.20E-06	4.04E-10	0.01%	4.04E-09	0.15%
Nitrous Oxide	6.00E+00	2.20E+00	7.40E-04	0.01%	7.40E-03	0.12%
Beryllium	2.80E-05	6.00E-06	2.02E-09	0.01%	2.02E-08	0.07%
Hexane	1.20E+01	1.8	6.05E-04	0.01%	6.05E-03	0.05%
Barium	3.30E-02	4.40E-03	1.48E-06	0.00%	1.48E-05	0.04%
Mercury	3.00E-03	2.60E-04	8.74E-08	0.00%	8.74E-07	0.03%
Copper	1.30E-02	8.50E-04	2.86E-07	0.00%	2.86E-06	0.02%
Zinc	6.67E-01	2.90E-02	9.75E-06	0.00%	9.75E-05	0.01%
Chromium(II,III)	3.30E-02	1.33E-03	4.47E-07	0.00%	4.47E-06	0.01%
Cobalt	3.30E-03	8.40E-05	2.82E-08	0.00%	2.82E-07	0.01%
Pentane	1.18E+02	2.6	8.74E-04	0.00%	8.74E-03	0.01%
Manganese	6.70E-02	3.80E-04	1.28E-07	0.00%	1.28E-06	0.00%
Molybdenum	3.33E-01	1.10E-03	3.70E-07	0.00%	3.70E-06	0.00%
Selenium	1.30E-02	2.40E-05	8.07E-09	0.00%	8.07E-08	0.00%
Naphthalene	3.33E+00	6.10E-04	2.05E-07	0.00%	2.05E-06	0.00%
Toluene	2.50E+01	3.40E-03	1.14E-06	0.00%	1.14E-05	0.00%

May 2004 . 35 . 030701.53

TABLE 7-3

COMPARISON OF TAP ACCEPTABLE AMBIENT CONCENTRATIONS WITH NATURAL GAS COMBUSTION EMISSION FACTORS

ТАР	Acceptable Ambient Concentration (AAC), µg/m^3	Averaging Period	AP-42 Emission Factor, Ib/MMscf	Ratio - AAC/ Emission Factor
Benzene	0.12	annual	2.10E-03	57.14
Formaldehyde	0.077	annual	7.50E-02	1.03
Hexane	9000	24-hr	1.8	5,000
Naphthalene	2500	24-hr	6.10E-04	4,098,361
PAHs (POM)	0.0003	annual	1.14E-05	26.32
Pentane	88500	24-hr	2.6	34,038
Toluene	18750	24-hr	3.40E-03	5,514,706
Nitrous Oxide	4500	24-hr	2.20E+00	2,045*
Arsenic	0.00023	annual	2.00E-04	1.15
Barium	25	24-hr	4.40E-03	5,682
Beryllium	0.0042	annual	6.00E-06	700.00
Cadmium	0.00056	annual	1.10E-03	0.51**
Chromium(II,III)	25	24-hr	1.33E-03	18,797
Chromium(VI)	0.000083	annual	7.00E-05	1.19
Cobalt	2.5	24-hr	8.40E-05	29,762
Copper	50	24-hr	8.50E-04	58,824
Manganese	250	24-hr	3.80E-04	657,895
Mercury	5	24-hr	2.60E-04	19,231
Molybdenum	250	24-hr	1.10E-03	227,273
Nickel	0.0042	annual	2.10E-03	2.00
Selenium	10	24-hr	2.40E-05	416,667
Zinc	500	24-hr	2.90E-02	17,241

<sup>\*</sup> Nitrous oxide has the lowest ratio of AAC to emission factor of any of the listed TAPs with a 24-hour averaging period.

<sup>\*\*</sup> Cadmium has the lowest ratio of AAC to emission factor of any of the listed TAPs with an annual averaging period.

TABLE 7-4
APPLICABILITY OF PTC RULE EXEMPTIONS TO FACILITY PROCESS CHANGES

Process	Description of Process					
	Change	Air Pollutant	Potential to Emit, ton/yr	10 percent of SER Level <sup>4</sup> , ton/yr	Meets Exemption Criterion?	TAP Compliance Status
Plant	Installation of	Carbon monoxide	10	10	Yes	Level I Exemption (IDAPA
	8.8 MMBtu/hr:	, India Odeli Oxides	2.35	4	Yes	58.01.01.223.02) - Projected air
	REYCO – Shop	Sulfur Dioxide	0.09	4	Yes	quality impacts are less than AAC.
	roof heater	Particulate Matter	0.29	2.5	Yes	
		PM-10	0.29	1.5	Yes	
		Volatile Organic Compounds	0.21	4	Yes	
		Lead	1.89E-5	0.06	Yes	
		Beryllium	4.5E-7	0.00004	Yes	
		Mercury	0.010	0.01	Yes	

<sup>&</sup>lt;sup>4</sup> SER Level is the rate of emissions that is defined as "significant" in IDAPA 58.01.01.006.92.

TABLE 7-4
APPLICABILITY OF PTC RULE EXEMPTIONS TO FACILITY PROCESS CHANGES

Process	Description of Process Change	Air Pollutant	Potential to Emit, ton/yr	10 percent of SER Level <sup>4</sup> , ton/yr	Meets Exemption Criterion?	TAP Compliance Status
Plant	Installation of	Carbon monoxide	10	10	Yes	Level I Exemption (IDAPA
	8.8 MMBtu/hr:	Nitrogen Oxides	2.35	4	Yes	58.01.01.223.02) - Projected air
	REYCO – Proctor	Sulfur Dioxide	0.09	4	Yes	quality impacts are less than AAC.
		Particulate Matter	0.29	2.5	Yes	
		PM-10	0.29	1.5	Yes	
		Volatile Organic Compounds	0.21	4	Yes	
		Lead	1.89E-5	0.06	Yes	
		Beryllium	4.5E-7	0.00004	Yes	
		Mercury	0.010	0.01	Yes	
Α	Installation of	Carbon monoxide	0	10	Yes	Not Applicable – no TAP Emissions
	process cooler	Nitrogen Oxides	0	4	Yes	
	and stack 7020	Sulfur Dioxide	0	4	Yes	
		Particulate Matter	3.1	2.5	No	
		PM-10	1.8	1.5	No	
		Volatile Organic Compounds	0	4	Yes	
		Lead	0	0.06	Yes	
		Beryllium	0	0.00004	Yes	
		Mercury	0	0.01	Yes	

May 2004 38 030701.53

TABLE 7-4
APPLICABILITY OF PTC RULE EXEMPTIONS TO FACILITY PROCESS CHANGES

Process	Description of Process Change	Air Pollutant	Potential to Emit, ton/yr	10 percent of SER Level <sup>4</sup> , ton/yr	Meets Exemption Criterion?	TAP Compliance Status
В	Replacement of	Carbon monoxide	7.5	10	Yes	Uncontrolled ambient concentration
	dryer associated	Nitrogen Oxides	1.4	4	Yes	less than Acceptable Ambient
	with stack 7019	Sulfur Dioxide	1.0	4	Yes	Concentration (IDAPA
		Particulate Matter	20.7	2.5	No	58.01.01.210.05). See Table 6-3.
		PM-10	14.8	1.5	No	
		Volatile Organic Compounds	0.2	4	Yes	
		Lead	1.42E-5	0.06	Yes	
		Beryllium	3.4E-7	0.00004	Yes	
		Mercury	7.4E-6	0.01	Yes	
В	Installation of	Carbon monoxide	0.0	10	Yes	Not Applicable – no TAP Emissions
	dryer and stacks	Nitrogen Oxides	0.0	4	Yes	
	613/614,	Sulfur Dioxide	1.5	4	Yes	
	615/616, and 638	Particulate Matter	11.2	2.5	No	
		PM-10	9.6	1.5	No	
		Volatile Organic Compounds	0.0	4	Yes	
		Lead	0.0	0.06	Yes	
		Beryllium	0.0	0.00004	Yes	
		Mercury	0.0	0.01	Yes	

May 2004 39 030701.53

TABLE 7-4
APPLICABILITY OF PTC RULE EXEMPTIONS TO FACILITY PROCESS CHANGES

Process	Description of Process Change	Air Pollutant	Potential to Emit, ton/yr	10 percent of SER Level <sup>4</sup> , ton/yr	Meets Exemption Criterion?	TAP Compliance Status
В	Installation of	Carbon monoxide	0.0	10	Yes	Not Applicable – no TAP Emissions
	materials	Nitrogen Oxides	0.0	4	Yes	
	transport system	Sulfur Dioxide	0.0	4	Yes	
	served by stack 432	Particulate Matter	0.2	2.5	Yes	
	432	PM-10	0.2	1.5	Yes	
		Volatile Organic Compounds	0.0	4	Yes	
		Lead	0.0	0.06	Yes	
		Beryllium	0.0	0.00004	Yes	
		Mercury	0.0	0.01	Yes	
В	Installation of	Carbon monoxide	0.0	10	Yes	Not Applicable – no TAP Emissions
	dryers and	Nitrogen Oxides	0.0	4	Yes	
	stacks 5034 and	Sulfur Dioxide	8.2	4	No	
	5037	Particulate Matter	7.7	2.5	No	
		PM-10	5.7	1.5	No	
		Volatile Organic Compounds	0.0	4	Yes	
		Lead	0.0	0.06	Yes	
		Beryllium	0.0	0.00004	Yes	
		Mercury	0.0	0.01	Yes	

May 2004 40 030701.53

TABLE 7-4
APPLICABILITY OF PTC RULE EXEMPTIONS TO FACILITY PROCESS CHANGES

Process	Description of Process Change	Air Pollutant	Potential to Emit, ton/yr	10 percent of SER Level <sup>4</sup> , ton/yr	Meets Exemption Criterion?	TAP Compliance Status
В	Installation of	Carbon monoxide	0.0	10	Yes	Not Applicable – no TAP Emissions
	materials	Nitrogen Oxides	0.0	4	Yes	
	transport system	Sulfur Dioxide	0.0	4	Yes	
	served by stack 5000	Particulate Matter	0.2	2.5	Yes	
	5000	PM-10	0.2	1.5	Yes	
		Volatile Organic Compounds	0.0	4	Yes	
		Lead	0.0	0.06	Yes	
		Beryllium	0.0	0.00004	Yes	
		Mercury	0.0	0.01	Yes	
В	Installation of	Carbon monoxide	0.0	10	Yes	Not Applicable – no TAP Emissions
	dryer and stack	Nitrogen Oxides	0.0	4	Yes	
	4000	Sulfur Dioxide	1.1	4	Yes	·
		Particulate Matter	8.8	2.5	No	
		PM-10	7.5	1.5	No	
		Volatile Organic Compounds	0.0	4	Yes	
		Lead	0.0	0.06	Yes	
		Beryllium	0.0	0.00004	Yes	
		Mercury	0.0	0.01	Yes	

May 2004 41 030701.53

TABLE 7-4
APPLICABILITY OF PTC RULE EXEMPTIONS TO FACILITY PROCESS CHANGES

Process	Description of Process Change	Air Pollutant	Potential to Emit, ton/yr	10 percent of SER Level <sup>4</sup> , ton/yr	Meets Exemption Criterion?	TAP Compliance Status
В	Replacement of	Carbon monoxide	9.2	10	Yes	Uncontrolled ambient concentration
	dryer and	Nitrogen Oxides	1.8	4	Yes	less than Acceptable Ambient
	installation of	Sulfur Dioxide	1.1	4	Yes	Concentration (IDAPA
	stacks 228 and	Particulate Matter	7.2	2.5	No	58.01.01.210.05). See Table 6-3.
	234	PM-10	6.2	1.5	No	
		Volatile Organic Compounds	0.4	4	Yes	
		Lead	3.5E-5	0.06	Yes	
		Beryllium	8.3E-7	0.00004	Yes	
		Mercury	1.8E-5	0.01	Yes	
В	Installation of	Carbon monoxide	0.0	10	Yes	Not Applicable – no TAP Emissions
	materials	Nitrogen Oxides	0.0	4	Yes	
	transport system	Sulfur Dioxide	0.0	4	Yes	
	served by stack 572	Particulate Matter	0.7	2.5	Yes	
		PM-10	0.52	1.5	Yes	
		Volatile Organic Compounds	0.0	4	Yes	
		Lead	0.0	0.06	Yes	
		Beryllium	0.0	0.00004	Yes	
		Mercury	0.0	0.01	Yes	

May 2004 42 030701.53

# 8. NEW SOURCE REVIEW PERMIT REQUIREMENTS THAT ARE RECOMMENDED FOR REVISION

There are no existing new source review permit requirements for the Rexburg Facility that BAF recommends be revised.

### 9. REQUESTED NEW PERMIT CONDITIONS

BAF requests that the conditions described in this section be included in the Tier II permit issued to the Rexburg Facility.

# REQUESTED ENFORCEABLE LIMIT ON PLANTWIDE FUEL COMBUSTION

As indicated in the Air Emissions Inventory in Section 5, the Rexburg Facility's current potential emissions of carbon monoxide exceed 250 tons per year, the threshold at which modifications might be subject to Prevention of Significant Deterioration (PSD) permitting rules. Condition 9.2 of the Rexburg Facility Tier I permit notes that as of the issuance of the Tier I permit, the Rexburg Facility has not triggered PSD permitting requirements, and also requires that this Tier II operating permit include proposed enforceable conditions to limit potential carbon monoxide emissions to levels below the 250 ton per year PSD threshold.

#### **PROPOSED LIMITATION ON FUEL COMBUSTION**

BAF proposes to limit overall combustion of fuels to assure that potential carbon monoxide emissions are less than 250 tons per year. The proposed limit is contained in the following equation:

$$0.464*S_{KB} + 0.133*(G_T-G_B) + 0.042*G_B \le 235$$

where:  $S_{KB}$  = Steam production by Kipper boiler in last 12 months, Million lbs

**G**<sub>T</sub> = Total gas combusted at Rexburg Facility in last 12 months, MMscf

**G**<sub>B</sub> = Total gas combusted in boilerhouse in last 12 months, MMscf

This equation calculates total carbon monoxide emissions at the Rexburg Facility, in tons per year, with each of the coefficients representing the carbon monoxide emission factor for that emission generating activity expressed in tons of CO per unit of fuel combusted. For calculating CO emissions from the Kipper Boiler, the equation uses the emission factor for wood waste combustion. Because CO emissions are higher with wood combustion than with coal combustion, use of the wood combustion emission factor provides a conservatively high estimate of CO emissions.

Compliance will be determined using a rolling 12-month average.

The basis for this equation is as follows:

0.464 tons CO/Million lbs of steam generated in Kipper Boiler

This is derived from the CO emission factor, 0.927 lb CO per 1000 lbs steam

## APPLICATION FOR TIER II AIR OPERATING PERMIT – REVISION #1 REXBURG FACILITY – BASIC AMERICAN FOODS

$$\frac{0.927 \ lb \ CO}{1000 \ lbs \ steam} * \frac{1000 \ lbs \ steam}{1000 \ lbs \ steam} * \frac{1 \ ton \ CO}{2000 \ lbs \ CO}$$

#### 0.133 tons CO/MMscf gas combusted outside boiler house

This is derived from a CO emission factor of 0.26 lbs CO per MMBtu of gas combusted. This emission factor is generally used by BAF to estimate CO emissions from its process burners. This factor is based on six separate measurements of CO emissions from bar burners conducted by BAF.

$$\frac{1020\,MMBtu}{MMscf\,gas}*\frac{0.26\,lb\,CO}{MMBtu}*\frac{1\,ton\,CO}{2000\,lb\,CO}=0.133\frac{tons\,CO}{MMscf\,gas}$$

#### 0.042 tons CO/MMscf gas combusted inside boiler house

This is derived from the AP-42 emission factor for CO emissions from natural gas combustion in small commercial boilers, 84 lbs CO per MMscf gas.

$$\frac{84 lb CO}{MMscf gas} * \frac{1 ton CO}{2000 lb CO} = 0.042 \frac{tons CO}{MMscf gas}$$

#### MONITORING, RECORDKEEPING, AND REPORTING PROVISIONS

To make this limit practically enforceable, data must be provided on the quantity of steam generated in the Kipper Boiler, and the amounts of natural gas combusted in the entire Rexburg Facility and the boiler house. The averaging period must also be sufficiently short to ensure that in any 12-month period, carbon monoxide emissions remain below the limit. Practical enforceability will be provided as follows:

- 1. The amount of steam generated in the Kipper Boiler will be recorded daily.
- 2. Natural gas consumption in the entire Rexburg Facility will be determined monthly from total natural gas deliveries recorded at the Rexburg Facility gas meter.
- 3. Natural gas consumption in the boilerhouse will be determined monthly from a gas meter that measures gas deliveries to the boilerhouse.
- 4. Plantwide carbon monoxide emissions will be calculated monthly, and results of the calculations will be submitted with the semi-annual compliance monitoring report required by the Rexburg Facility's Tier I Air Operating Permit.
- 5. If the result of the calculation indicates that carbon monoxide emissions exceeded 235 tons in any 12-month calendar period, BAF will report the result as a possible excess emission. BAF may also submit any other credible evidence with the report that would indicate that actual emissions differed from the amount calculated using the emission limitation equation.

## Application for Tier II Air Operating Permit – Revision #1 Rexburg Facility – Basic American Foods

- 6. If the steam totalizing meter for the Kipper Boiler fails to operate, steam generation from the Kipper Boiler will be calculated from fuel usage records. Failure of the steam totalizing meter for the Kipper Boiler will not be considered a failure to collect required monitoring data provided daily fuel consumption records are maintained.
- 7. If required monitoring data fail to be collected, missing data may be estimated using best professional judgment. The minimum data availability for any required monitoring information is 90 per cent in any 12-month period.

## REQUESTED PERMIT CONDITION FOR MODIFYING CERTAIN STACKS

As noted in Section 6, the Full Impact Analysis incorporates the following modifications to existing stacks:

- Stacks 228, 234, 311, 312, 410/411, 613/614, and 615/616 will be reoriented to discharge vertically without impedance. Currently, stacks 228 and 234 discharge horizontally, and stacks 311, 312, 410/411, 613/614, and 615/616 have hats that arrest the upward momentum of the stack exhaust.
- Stacks 4000 and 7019 will be increased 10 feet in height.

The proposed permit conditions below will give force to these requirements.

- 1. BAF will modify stacks 228, 234, 311, 312, 410/411, 613/614 and 615/616 to discharge vertically.
- 2. BAF will increase the discharge height of stacks 4000 and 7019 by ten feet.
- 3. BAF will complete engineering evaluations and designs for stack modifications within 120 days after the issuance date of this permit.
- 4. BAF will complete the modifications to stacks no later than the conclusion of the first plant maintenance shutdown after completing the engineering evaluations and design, but in no case later than December 31, 2005.

#### PROPOSED COMPLIANCE SCHEDULE

BAF proposes the following schedule for activities to demonstrate compliance with this air quality standard:

## APPLICATION FOR TIER II AIR OPERATING PERMIT – REVISION #1 REXBURG FACILITY – BASIC AMERICAN FOODS

Activity	Documentation to be Provided	Deadline for Submittal of Documentation	
Complete Engineering evaluation and design for modifying stacks.	Dates of next plant maintenance shutdown and date by which all modifications to stacks will be completed	120 days after issuance of Tier II Permit	
Complete required modifications to stacks	Notice of completion of stack modifications	30 days after completion of stack modifications,	

# APPENDIX A COMPLETENESS DETERMINATION FORMS

# COMPLETENESS DETERMINATION CHECKLIST AND APPLICATION INDEX

Company Name	Basic American Foods
Location	Rexburg, ID
Project	Tier I Air Operating to mut
Reviewer	Date

The attached forms have been provided as a checklist and application index to ensure all the required information have been included with the air pollution source permit application. These forms shall be submitted along with the application. These checklist/index forms include the following elements of the permit application:

- **Application Forms**
- **Source Descriptions** 635
- Source Flow Diagrams æ
- **Plot Plans** KS
- Emission Estimate References and Documentation
- **Excess Emission Documentation** æ
- **Ambient Air Impact Analysis** Œ
- **Compliance Certification Plan** 暖

Each page of the permit application shall be numbered so that each page can be referenced individually. This will allow these checklist forms to act as the permit application table of contents.

## **APPLICATION FORMS**

	SECTION	<u>SOURCE</u>		PAGE
	-1 -2 -3 -7 -8	Kippe Boiler Boilers 1,2: Process Stacks-Processes Materials Transport-Process Haul Roads		AFFEX B. AFFEX B. AFFEX B. AFFEX B.
			-	
				was a state of the
			-	
			-	
			-	
			-	
			-	
			-	
			_	-
			-	
			YES	<u>NO</u>
OF	Is the application signed an	d dated?		
rge	Are all the forms adequatel	y completed?		whome deposit families .

## SOURCE DESCRIPTIONS

SOURCE	PAGE
Prous-Plant	Section 4
Prouss-Bellers	Section 4
Prouss A	Section 4
Process -B	Section 4
(1000	
	## ·
	YES
	1 <u>L.S</u>

		YES	<u>NO</u>
		1	
Œ	Are the existing facilities described?		
Œ	Are the modifications or new facilities described?	1	
æ	Are all applicable processes, materials, ventilation, and controls described?	<u> </u>	
	Are all equipment referenced by specific ID name or number?	E. remaining	

## SOURCE FLOW DIAGRAMS

SOURCE	PAGE
Plant mde	Section 4- Figures
Boilere	1, 0
Paruss A	<del>t</del> )
Process B	
	·

		<u>YES</u>	<u>NO</u>
œ	Are included?	— E	
637	Shows entire existing facility?	- income	
137	Shows entire future facility?	<u> </u>	
CF	Shows each process separately (if needed)?		
<b>133</b> °	Details storage, roads, transfers, and processing?	<u>Loop</u>	<del></del>
reg	Labeling is adequate (processes and stacks identified, flowrates, and process rates shown)?	1	

Flowrotes and process rotes discussed
IN marrative

### **PLOT PLANS**

Shows all buildings, equipment, storage, and roads?

Is adequate for both existing and future or includes both?

	SOURCE	PAGE Frq 3-1,3-2,3-3
	Plant wide	<u>rea</u> 3
		and the first
		<del></del>
		YES NO
噿	Is included?	<u> </u>
035°	Shows location coordinates?	
<b>138</b>	Shows plant boundaries?	<u> </u>
128	Shows neighboring ownership and facilities?	
	Shows topography?	<u> </u>
C37°		<u> </u>
13	Scale shown or distances adequately labeled?	

## **EMISSION ESTIMATE REFERENCES AND DOCUMENTATION**

SOURCE All emission units	porc.	
	· 	
	YES NO	
All fugitive and point sources listed?	<u> </u>	
All pollutants addressed?	<u> </u>	
Process documentation and specs included?	1 -	, Š
Control equipment documentation and specs included?	_ <u> </u>	
Emission factors documented and referenced?		
Calculations and assumptions shown?		
Source tests referenced (test includes processing and control device test conditions)?		
control equipment spees have I with earlier PTC applications.	been provided	)
with contier PTC applications.	No new contin	
comprient included in this as	pplication	

## **EXCESS EMISSION DOCUMENTATION**

	SOURCE	<u>PAGE</u>			
	Recorderpry Requirements	Sec	Ų		
	, , , ,				
		and the state of t			
		-			
		name and property are a			
			<u>YES</u>	•	<u>NO</u>
œ	All three types of excess emissions (startup, shutdown maintenance) covered for each source?	vn, and scheduled		~1 A	
res-	Calculations and documentation included?			NA	
æ	Expected frequencies of excess emissions noted?			(Barrens)	
63°	Justification for amounts and frequencies of excess	emissions?		- The second sec	
123	Procedures for minimizing excess emissions covere			¥./	

## **AMBIENT AIR IMPACT ANALYSIS**

#### **PROJECT**

Existing ambient air quality discussion including attainment status and classification of areas which may be significantly impacted.

Discussion of dispersion model use and assumptions.

Dispersion model input.

Disperson model output.

Discussion of ambient impacts for each pollutant.

Discussion of how excessive impacts will be controlled or avoided for sources and pollutants with the potential for these.

**PAGE** 

Full Imput Analysis Report

Section 6. Compliance Plan Proposal Sec. 10.

## **COMPLIANCE CERTIFICATION PLAN**

	SOURCE		
	None country startup		
	shurdown excess -		
	emission procedures proposed -		
		YES	<u>NO</u>
res <sup>e</sup>	Monitoring, recordkeeping, and reporting discussed?		
œ	Stack testing methods thoroughly documented?		
略	Discussion and documentation of process control mechanisms used to meet emission limits?		
168.	Quality assurance/quality control discussed?		
D35°	Monitoring equipment specifications and documentation included?		

### **APPENDIX B**

# EMISSIONS UNIT DATA TABLES (IDEQ AIR QUALITY OPERATING PERMIT APPLICATION FORMS IN SPREADSHEET FORMAT)

Stack Description	Kippe	er Boiler	Boiler 1	Boiler 2	Heaters
DEQ Use Only					
DEQ Plant ID Code					
DEQ Process Code					
DEQ Stack ID Code					
DEQ Building Code					
Primary SCC	· · · · · · · · · · · · · · · · · · ·				
Secondary SCC					
DEQ Segment Code					
Part A: General Information		University of the second secon			
Process Code or Description	P	oiler	Boiler	Boiler	Plant
Stack Description		er Boiler	Boiler 1	Boiler 2	Heaters
Building Description		Plot Plan	See Plot Plan	See Plot Plan	-
Building Bescription		TOT TOT	Coo i lott ian	0007 1001 1011	
Manufacturer	Kinna	r & Sons	Springfield	Murray	various
Model	Nippe	1 & 30113	52	Manay	- vanous
Date Installed	1	l 981	1975	1982	various
Last Date Modified		981	10/0	1002	1011000
Rated Capacity	]				NATIONAL PROPERTY OF THE PROPE
		00	52	35	30.8
Million BTU/hr		90	11	35 11	11
Burner Type Percent Used for Process		<u>1</u> 100	100	100	0
		0	0	0	100
Percent Used for Space Heat		V	l v	V	100
Fuel Data		14/	D. C. C. C.	Dimen Fuel	Driman Cual
	Wood Only	Wood:coal	Primary Fuel	Primary Fuel 01	Primary Fuel 01
Fuel Code	08	08 & 10 (50% mix)	01	1020 Btu/scf	1020 Btu/scf
Heat Content	9000 Btu/lb BDS	9,250 Btu/lb	1020 Btu/scf	34,314	30,196
Maximum Hourly Combustion Rate	10,000	9,730 85,232,432	50,980 446,588,235	300,588,235	132,258,824
Normal Annual Combustion Rate	87,600,000	00,232,432	440,000,200	300,300,233	132,230,024
Part B: Operating Data		0.5	I OF	0.5	40
Percent Fuel Consumption: Dec-F		25	25	25	40
Mar-May		25	25	25	25
Jun-Aug		25	25	25	10 25
Sep-Nov		25	25	25 24	25
Operating Schedule: Hours/d		24	24 7	7	7
Days/wee	· · · · · · · · · · · · · · · · · · ·	7		51	51
Weeks/yea		51	51 8760	8760	8760
Hours/year	8	760	0/00	0700	0700
Pollution Control Equipment				<b>*</b> 1	A I
Туре	Multiclone	wet scrubber	None	None	None
Type Code	077	002	000	000	000
Ventilation and Building/Area D					
Enclosed (Y/N)		Υ	Y	Y	Υ
Hood type				<del></del>	
Minimum flow (acfm)					
Percent Capture Efficiency				- 00	- 00
Building height (ft)		66	66	66	66
Building /area length (ft)		100	100	100	100
Building/area width (ft)		70	70	70	70
Ground elevation (ft)		863	4863	4863 437	4863 437
UTM x coordinate (km)		137	437		
UTM y coordinate (km)		854	4854	4854	4854 02
Stack type		02	02	02	30
Stack height from ground level (ft)		66	36	36	
Stack exit diameter (ft) (modeled cond		.00	3.00	3.00	0.00
Stack exit gas flowrate (acfm) (modele		5,238	19,972	13,154	0 70
Stack exit temperature (F)	•	129	500	500	//

Stack Description	Kipper Boiler	Boiler 1	Boiler 2	Heaters
Criteria Air Pollutant Emissions	PARTIES TO THE PARTIES OF THE PARTIE			
PM: Emission Factor (lbs/MM Btu)	0.184	0.007	0.007	0.007
Emission Factor (lbs/hour)	16.59	0.39	0.26	0.23
Percent Control Efficiency	included in emission factor			
Estimated or Measured Emissi	16.59	0.39	0.26	0.23
Allowable emissions (lbs/hr)				
Allowable emissions (tons/yr)				
Reference	Appendix C	Appendix C	Appendix C	Appendix C
M10: Emission Factor (lbs/MM Btu)	0.181	0.007	0.007	0.007
Emission Factor (lbs/hour)	16.25	0.39	0.26	0.23
Percent Control Efficiency				
Estimated or Measured Emissi	16.25	0.39	0.26	0.23
Allowable emissions (lbs/hr)				
Allowable emissions (tons/yr)				
Reference	Appendix C	Appendix C	Appendix C	Appendix C
O2: Emission Factor (lbs/MM Btu)	0.543	0.002	0.002	0.002
Emission Factor (lbs/hour)	48.89	0.12	0.08	0.07
Percent Control Efficiency				
Estimated or Measured Emissic	48.89	0.12	0.08	0.07
Allowable emissions (lbs/hr)				
Allowable emissions (tons/yr)				
Reference	Appendix C	Appendix C	Appendix C	Appendix C
CO: Emission Factor (lbs/MM Btu)	0.618	0.082	0.082	0.082
Emission Factor (lbs/hour)	55.62	4.28	2.88	2.54
Percent Control Efficiency				
Estimated or Measured Emissic	55.62	4.28	2.88	2.54
Allowable emissions (lbs/hr)				
Allowable emissions (tons/yr)	MARK CONTRACTOR OF THE CONTRAC			
Reference	Appendix C	Appendix C	Appendix C	Appendix C
NOx: Emission Factor (lbs/MM Btu)	0.304	0.098	0.098	0.098
Emission Factor (lbs/hour)	27.38	5.10	3.43	3.02
Percent Control Efficiency				
Estimated or Measured Emissic	27.38	5.10	3.43	3.02
Allowable emissions (lbs/hr)				
Allowable emissions (tons/yr)				
Reference	Appendix C	Appendix C	Appendix C	Appendix C
/OC Emission Factor (lbs/MM Btu)	0.033	0.005	0.005	0.005
Emission Factor (lbs/hour)	2.94	0.28	0.19	0.17
Percent Control Efficiency		***		
Estimated or Measured Emissic	2.94	0.28	0.19	0.17
Allowable emissions (lbs/hr)				
Allowable emissions (tons/yr)				
Reference	Appendix C	Appendix C	Appendix C	Appendix C
.ead Emission Factor (lbs/MM Btu)	4.80E-05	4.90E-07	4.90E-07	4.90E-07
Emission Factor (lbs/hour)	4.32E-03	2.55E-05	1.72E-05	1.51E-05
Percent Control Efficiency				
Estimated or Measured Emission	4.32E-03	2.55E-05	1.72E-05	1.51E-05
Reference	Appendix C	Appendix C	Appendix C	Appendix C

#### SECTION 2. CON'T. HAP EMISSIONS - KIPPER BOILER

Wood Waste Emission Factors (AP-4	2, Chapter 1.6)		n Rate, Ib/hr	Coal Emisions (AP-42, Cha	pter 1.1)		
	11 (84845)	100% wood	500/ ad fining	Constituent	lb/MMBtu	Emission Rate, lb/h 50% coal firing	
Constituent	lb/MMBtu	firing	50% wood firing		7.53E-13	3.39E-11	
Acetaldehyde	8.30E-04	7.47E-02	3.74E-02	2,3,7,8-TCDD	5.74E-11	2.58E-09	
Acetophenone	3.20E-09	2.88E-07	1.44E-07	Total PCDF	1.09E-06	4.92E-05	
Acrolein	4.00E-03	3.60E-01	1.80E-01	POM (sum of POM consituuents lis	1.09E-00	4.52L-03	
Benzene	4.20E-03	3.78E-01	1.89E-01	5-Methyl chrysene			
Bis(2-ethylhexyl)phthalate (DEHP)	4.70E-08	4.23E-06	2.12E-06	Acenaphthene			
Methyl bromide (bromomethane)	1.50E-05	1.35E-03	6.75E-04	Acenaphthylene			
2-Butanone (MEK)	5.40E-06	4.86E-04	2.43E-04	Anthracene			
Carbon tetrachloride	4.50E-05	4.05E-03	2.03E-03	Benzo(a)anthracene			
Chlorine	7.90E-04	7.11E-02	3.56E-02	Benzo(a)pyrene			
Chlorobenzene	3.30E-05	2.97E-03	1.49E-03	Benzo(b,j,k)fluoranthene			
Chloroform	2.80E-05	2.52E-03	1.26E-03	Benzo(g,h,i)perylene			
Methyl chloride (chloromethane)	2.30E-05	2.07E-03	1.04E-03	Biphenyl			
Ethylene dichloride (dichloroethane)	2.90E-05	2.61E-03	1.31E-03	Chrysene			
Dichloromethane	2.90E-04	2.61E-02	1.31E-02	Fluoranthene			
1,2-Dichloropropane	3.30E-05	2.97E-03	1.49E-03	Fluorene			
2,4-Dinitrophenol	1.80E-07	1.62E-05	8.10E-06	Indeno(1,2,3-cd)pyrene			
Ethyl benzene	3.10E-05	2.79E-03	1.40E-03	Naphthalene			
Formaldehyde	4.40E-03	3.96E-01	1.98E-01	Phenanthrene			
Total PCDF	1.87E-09	1.68E-07	8.41E-08	Pyrene	3.00E-05	1.35E-03	
Heptachlorodibenzo-p-furans				Acetaldehyde		3.55E-05	
Hexachlorodibenzo-p-furans				Acetophenone	7.89E-07	6.87E-04	
Octachlorodibenzo-p-furans				Acrolein	1.53E-05	3.08E-03	
Pentachlorodibenzo-p-furans				Benzene	6.84E-05	1.66E-03	
2,3,7,8-Tetrachlorodibenzo-p-furans				Benzyl chloride	3.68E-05		
Tetrachlorodibenzo-p-furans				Bis(2-ethylhexyl)phthalate (DEHP)	3.84E-06	1.73E-04 9.24E-05	
Hydrogen chloride	1.90E-02	1.71E+00	8.55E-01	Bromoform	2.05E-06		
Naphthalene	9.70E-05	8.73E-03	4.37E-03	Carbon disulfide	6.84E-06	3.08E-04	
4-Nitrophenol	1.10E-07	9.90E-06	4.95E-06	2-Chloroacetophenone	3.68E-07	1.66E-05	
Pentachlorophenol	5.10E-08	4.59E-06	2.30E-06	Chlorobenzene	1.16E-06	5.21E-05	
Phenol	5.10E-05	4.59E-03	2.30E-03	Chloroform	3.11E-06	1.40E-04	
Styrene	1.90E-03	1.71E-01	8.55E-02	Cumene	2.79E-07	1.26E-05	
2,3,7,8-TCDD	8.60E-12	7.74E-10	3.87E-10	Cyanide	1.32E-04	5.92E-03	
Tetrachloroethene	3.80E-05	3.42E-03	1.71E-03	2,4-Dinitrotoluene	1.47E-08	6.63E-07	
Toluene	9.20E-04	8.28E-02	4.14E-02	Dimethyl sulfate	2.53E-06	1.14E-04	
1,1,1-Trichloroethane	3.10E-05	2.79E-03	1.40E-03	Ethyl benzene	4.95E-06	2.23E-04	
Trichloroethene	3.00E-05	2.70E-03	1.35E-03	Ethyl chloride	2.21E-06	9.95E-05	
2,4,6-Trichlorophenol	2.20E-08	1.98E-06	9.90E-07	Ethylene dichloride (dichloroethane	2.11E-06	9.47E-05	
Vinyl Chloride	1.80E-05	1.62E-03	8.10E-04	Ethylene dibromide	6.32E-08	2.84E-06	
Xylenes	2.50E-05	2.25E-03	1.13E-03	Formaldehyde	1.26E-05	5.68E-04	
POM (sum of POM consituuents)	2.78E-05	2.50E-03	1.25E-03	Hexane	3.53E-06	1.59E-04	
Antimony	7.90E-06	7.11E-04	3.56E-04	Antimony	9.47E-07	4.26E-05	
Arsenic	2.20E-05	1.98E-03	9.90E-04	Arsenic	2.16E-05	9.71E-04	
Beryllium	1.10E-06	9.90E-05	4.95E-05	Beryllium	1.11E-06	4.97E-05	
Cadmium	4.10E-06	3.69E-04	1.85E-04	Cadmium	2.68E-06	1.21E-04	
Chromium, total	2.10E-05	1.89E-03	9.45E-04	Chromium, total	1.37E-05	6.16E-04	
Chromium, hexavalent	3.50E-06	3.15E-04	1.58E-04	Cobalt	5.26E-06	2.37E-04	
Cobalt	6.50E-06	5.85E-04	2.93E-04	Lead	2.21E-05	9.95E-04	
Lead	4.80E-05	4.32E-03	2.16E-03	Manganese	2.58E-05	1.16E-03	
Manganese	1.60E-03	1.44E-01	7.20E-02	Mercury	4.37E-06	1.97E-04	
Mercury	3.50E-06	3.15E-04	1.58E-04	Nickel	1.47E-05	6.63E-04	
Nickel	3.30E-05	2.97E-03	1.49E-03	Selenium	6.84E-05	3.08E-03	
Selenium	2.80E-06	2.52E-04	1.26E-04		7.17E-02	3.23E+00	
Colonian	3.86E-02	3.48E+00	1.74E+00	<b>-</b>			

Coal Creek Environmental Associates, LLC 020101.12

SECTION 2, CON'T, HAP EMISSIONS, BOILER 1, BOILER 2, AND PLANT HEATERS

Natural Gas Emision Factors	(AP-42, Chapte	er 1.4)	E	)r			
Constituent		lb/MMBtu	Boiler 1	Boiler 2	and the same of th		
Lead		4.90E-07	2.55E-05	1.72E-05	1.51E-05		
POM (sum of POM consituuents listed		8.65E-08	4.50E-06	3.03E-06	2.66E-06		
2-Methylnaphthalene	2.40E-05						
3-Methylchloranthrene	1.80E-06						
7,12-Dimethylbenz(a)anthracene	1.60E-05						
Acenaphthene	1.80E-06						
Acenaphthylene	1.80E-06						
Anthracene	2.40E-06						
Benz(a)anthracene	1.80E-06						
Benzo(a)pyrene	1.20E-06						
Benzo(b)fluoranthene	1.80E-06						
Benzo(g,h,i)perylene	1.20E-06						
Benzo(k)fluoranthene	1.80E-06						
Chrysene	1.80E-06						
Dibenzo(a,h)anthracene	1.20E-06						
Fluoranthene	3.00E-06						
Fluorene	2.80E-06						
Indeno(1,2,3-cd)pyrene	1.80E-06						
Phenanathrene	1.70E-05						
Pyrene	5.00E-06						
Benzene		2.06E-06	1.07E-04	7.21E-05	6.34E-05		
Dichlorobenzene		1.18E-06	6.12E-05	4.12E-05	3.62E-05		
Formaldehyde		7.35E-05	3.82E-03	2.57E-03	2.26E-03		
Hexane		1.76E-03	9.18E-02	6.18E-02	5.44E-02		
Naphthalene		5.98E-07	3.11E-05	2.09E-05	1.84E-05		
Toluene		3.33E-06	1.73E-04	1.17E-04	1.03E-04		
Arsenic		1.96E-07	1.02E-05	6.86E-06	6.04E-06		
Beryllium		1.18E-08	6.12E-07	4.12E-07	3.62E-07		
Cadmium		1.08E-06	5.61E-05	3.77E-05	3.32E-05		
Chromium		1.37E-06	7.14E-05	4.80E-05	4.23E-05		
Cobalt		8.24E-08	4.28E-06	2.88E-06	2.54E-06		
Manganese		3.73E-07	1.94E-05	1.30E-05	1.30E-05		
Mercury		2.55E-07	1.33E-05	8.92E-06	8.92E-06		
Nickel		2.06E-06	1.07E-04	7.21E-05	7.21E-05		
Selenium		2.35E-08	1.22E-06	8.24E-07	8.24E-07		

Total HAP Emission Factor: 1.85E-03 9.63E-02 6.48E-02 6.48E-02

Pages \$\frac{1}{30}\$ through and including \$\frac{28}{30}\$
were marked "confidential" and were

returned to BHF in May, 2006,

DEC
DEC   Print DC Code
FEO Stack ID Codes
FEO Stack ID Codes
Primary SCC
Primary SCC
DEG Segment Code
DEG Segment Code
Process Code or Description
Process Code of Description   Process of Des
Stabiliding Description   See Plot Plan   Se
Date
Date installation   Last Date Modified   Last Date Modified   Material Description   Method
Material Transfer Rate   1000 lbs/hour)   30.40   30.40   30.40   0   #NVA
Material Transfer Rate   1000 lbs/hour)   30,40   30,40   30,40   0   #N/A
Maximum Hourly Transfer Rate (1000 lbs/hour)   30.40   30.40   0   #N/A
Magnitum Potity Transfer Rate (1000 lbs/hour)
Normal France   Normal Franc
Normal Antique Hartsfeld Falle (1000 bisyear)   35,201
Belt Conveyor/Vehicle Transfer
Pneumatic Conveyor Transfers
Moisture content, wf %   8
Moisture content, wf %   8
Moisture content, wt %   8
Moisture Content, W %   Content   Cyclone
Separator Efficiency   Separator Enclosed tank. No stack   Enclosed tank. No s
Separator Efficiency
Storage Type:
Material Data
HAP Description
HAP Description
PART B: Operating Data
Percent Fuel Consumption: Dec-Feb
Percent Fuel Consumption: Dec-Feb
Mar-May   Jun-Aug
Sep-Nov
Sep-Nov   Operating Schedule: Hours/day   24   24   24   24   24   24   24   2
Operating Schedule: Hours/day   24   24   24   24   24   24   24   2
Days/week
None
Veeks/year   02   02   02   02   02   02   02   0
Type         None         None         None         None         None           Type Code         0000         0001         0002         0003         0004           Ventilation and Building/Area Data           Enclosed (Y/N)         Y         Y         Y         Y         Y
Type
Type Code
Enclosed (Y/N) Y Y Y Y
Enclosed (Y/N)
Hood type
Minimum flow (acfm)
Percent Capture Efficiency 70 66 66 66 66
Building height (ft)
Building /area length (it)
Building/area width (ft) 220 300 4000 4000
Glound elevation (ii) 427 427 427
01MX COOLONIAG (NII) 4054 4054 4854
UTM y Coordinate (kin) 4004 4004 004 004
Stack type 04 02 00 10
Stack height from ground level (it)
Stack exit diameter (it) (as inocered)
Stack exit gas flowrate (acriff) (as filodeled)
Stack exit temperature (F)
Air Pollutant Emissions  Thus Emission Feature M4000 the meterial transferred 0.002 0.002 #N/A
PM: Emission Factor, for 1000 ibs material transferred 0.002 0.010
Percent Control Efficiency  Catinosted Engineering (Ibr/Ibr)  0.05  0.49  0.05  0.002  #N/A
Estimated Effissions (ibs/iii)
Allowable emissions (lbs/hr)
Allowable emissions (tons/yr)  Appendix C  Appendix C  Appendix C
Reference Appendix C Appendix C Appendix C Appendix C Appendix C Appendix C
Reference Appendix C A
Reference Appendix C A
Reference Appendix C A
Reference Appendix C A
Reference         Appendix C         Appendix

May 2003

P																						
													1			T						
DEQ Best ID Code				,								-										
													-									
DEQ Process Code																						
DEQ Stack ID Code								ļ			ļ	<del></del>	ļ <del></del>			ļ						
DEQ Building Code										!												
Primary SCC																!!						
Secondary SCC																						
DEQ Segment Code		i																-				
											1							1				
General Information				,		,		,						1 14		L5	М1	M2	M3	194	N1	N2
Road Description	A	8	С	D	Ε	F .	G	В		3	K	L1	L2	L3	L4	1214	500	2447	1258	826	518	574
Length (ft)	295	295	298	394	587	525	627	578	815	1342	1671	1572	2730	1306	981				20	20	20	20
Width (ft)	40	217	143	109	131	j 40	55	84	38	20	20	20	20	20	20	20	20	20		ZU N	20 N	20 N
Paved (Y/N?)	Y	Y	Y	Υ Υ	Y	Y	) Y	Y	N	N	N	N N	N N	N N	N N	N	N	N	N			
Beginning Coordinates UTM-X (km)	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437
UTM-Y (km)	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854
Ending Coordinates UTM-X (km)	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437	437
UTM-Y (km)	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854	4854
Data For All Roads - Paved and Unpaved	1001																					
Data For All Roads - Paved and Unpaved		40.040		I						fairless service 10	Landon Modela 45	Inials in breaks 10	Laistern Breeke 40	materia truello 10	Injetion trucke 10	pickup trucks, 10	nickun trucke 10	pickup trucks, 10	pickup trucks, 10	pickup trucks, 10	pickup trucks, 10	pickup trucks, 10
Lance of			cars, trucks, 18 & 10				40.0 44.00			pickup trucks, 10	pickup trucks, 10	pickup trucks, 10	pickup trucks, 10	pickup trucks, 10 Wheelers	Wheelers	Wheelers	Wheelers	Wheelers	Wheelers	Wheelers	Wheelers	Wheelers
Vehicle Description	Wheelers	Wheelers	Wheelers	Wheelers	10 Wheelers	10 Wheelers	18 & 14 Wheelers	18 & 14 Wheelers	10 Wheelers	Wheelers	Wheelers	Wheelers	Wheelers		vivida ors	swidders 2	*11.000.5	*********	1710/000 2	7	7	7
Number of Round Trips per Day	338	345	7	281	200	38	47	35	10	7	18	<del>  7</del>	1 7	7				1 2/2	701	240	1 27	1.52
Vehicle Miles Traveled per Day	37 80	38.59	079	41.91	44 44	7.56	11 16	7 6S	309	3.56	11 40	4.17	7.24	3 46	2 90	3 22	1,32	6 49	3.34	2.19	1.37	
Number of Days per Year Used	varies	varies	varies	varies	varies	varies	varies	varies	veries	vanes	varies	varies	veries	veries	vanes	vanes	varies	vanes	varies	vanes	vanes	varies
Number of Round Trips per Year	89,731	91,656	1,925	75,151	52,000	11,035	10,520	7,700	3,650	780	1,295	780	780	780	780	780	780	780	780	780	780	780
Vehicle Miles Traveled per Year	10,036	10,251	217	11,207	11,555	2,194	2,558	1,686	1,127	396	820	464	806	386	290	359	148	723	372	244	153	170
Average Vehide Speed (mph)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Surface Sit Content (% weight or g/m2)	0.4	0.4	0.4	0.4	04	0.4	04	0.4	54	64	64	5.4	6.4	6.4	64	6.4	64	5.4	64	64	64	64
Vehicle Empty Weight (tons)	varies	varies	varies	varies	varies	veries	varies	veries	veries	varies	varies	veries	varies	varies	varies	vanes	varies	varies	varies	vanes	varies	varies
Vehicle Full Weight (tons)	varies	varies	varies	varies	vories	veries	varies	varies	varies	veries	veries	varies	varies	varies	vanes	varies	varies	VERNES	varies	varies	vanes	varies
Mean Vahide Weight (lons)	7.3	7.8	28 4	87	10	28.1	26 4	25 1	24 0	7.1	14.4	71	71	7.1	71	71	7.1	7.1	71	7.1	7.1	71
	1.3	10	1 204	1 01	10	20.1	204	- 401	270	1	194	1		7-1				1				
Unpaved Roads Data										,						,				8	l e	
Mean Number of Wheels per Vehide	6	6	13	7	4	13	12	12	10	8	9	8	8	8	8		8	В.		90	90	90
Number of Days >0.01 inches of precipitation	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Paved Roads Data																						
Number of Lanes	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Industrial Augmentation Fector	100	1.00	100	100	1.00	1.00	1.00	1 00	1 00	1.00	1,00	100	100	1.00	1.00	100	1 00	100	1.00	1 00	100	1 00
Dust Leading (bolmile)	74.3	82.6	11.8	80.5	2.2	62.9	70.6	48.9	342.1	130 0	4764	130 0	130.0	130.0	130 0	130.0	130 0	130 0	130 0	130.0	138 0	130 0
Road Dust Chemical Date					1																	
		··········																				
							,				1		T							1		1
HAP Description							1	T			1	I	1									
HAP Description HAP CAS Number																						
HAP Description HAP CAS Number HAP Fraction in Road Dust, by Weight																						
HAP Description HAP CAS Number HAP Fraction in Road Dust, by Weight Operating Data																						
HAP Description HAP CAS Number HAP Fraction in Road Dust, by Weight	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
HAP Description HAP CAS Number HAP Fraction in Road Dust, by Weight Operating Data Percent Fuel Consumption: Dec-Feb	75   75   75	25 25	25 25	25 25	25 25	25 26	25 25	25 25	25 25	25 25 25	25	25	25	25	25	25	25 25	25	25 25	25	25 25	25
HAP Description HAP CAS Number HAP Fraction in Road Dust, by Weight Operating Data					25 25 25 25			25 25 25 25	25	25	25 25	25 25	25 25	25 25	25 25	25 25	25	25 25	25	25 25	25	25 25
HAP Descretion HAP CAS Number HAP Fraction Road Dust, by Weight Operating Date Percent Flee Consumption: Dec-Feb Mar-Mey	25	25	25	25		25	25 25 25		25 25	25 25	25 25 25	25	25 25 25	25 25 25	25 25 25	25 25 25 25	25 25	25 25 25	25 25	25 25 25	25 25	25 25 25
HAP Descration HAP CAS Number HAP Fraction in Road Dust, by Weight Operating Date Percent Fuel Consumption: Dec-Feb Mar-May John-Aug Spp-Neor	25 25	25 25	25 25	25 25	25	25 25	25 25	25	25	25	25 25	25 25	25 25	25 25	25 25	25 25	25	25 25	25	25 25	25	25 25 25 24
HAP Description PAP CAS Number HAP Fraction is Road Dust, by Weight HAP Fraction is Road Dust, by Weight HAP Fraction is Road Dust, by Weight Percent Fluid Consumption: Dec-Feb Mar May Jan-May Jan-May Spo-Nev Cperrating Scheduler Hourstopy	25 25 25	25 25 25	25 25 25	25 25 25	25 25	26 25 25	25 25 25	25 25	25 25	25 25	25 25 25	25 25 25	25 25 25	25 25 25	25 25 25	25 25 25 25	25 25	25 25 25	25 25	25 25 25	25 25 24 7	25 25 25 25 24 7
HAP Descretion HAP Foreston in Road Dust, by Weight Operating Data Percent Piec Consumption: Dec-Feb Mar May Joh-Aug Spe-Nev Operating Sate Household Spe-Nev Operating Schedule Hoursdoy Displayment	25 25 25 25 24 7	25 25 25 24 7	25 25 25 25 24 7	25 25 25 26 24 7	25 25 24 7	25 25 25 24 7	25 25 25 25 24 7	25 25	25 25 24	25 25 24	25 25 25 24	25 25 25	25 25 25	25 25 25	25 25 25	25 25 25 25	25 25	25 25 25 25 24	25 25	25 25 25 24	25 25 24	25 25 25 24
NAP Descretion PAP CAS Number NAP Fraction is Road Dust, by Weight Operating Data Percent Fluid Consumption: Dec-Feb Mar Maty Jan-Mug Sop-Nev Coerrating Scheduler Hourstony Denysleweis Weischyner	25 25 25 25 24	25 25 25 25 24	25 25 25	25 25 25 26 24	25 25	26 25 25	25 25 25 25 24	25 25 24 7	25 25 24 7	25 25 24 7	25 25 25 24 7	25 25 25 25 24 7	25 25 25 25 24 7	25 25 25 25 24 7	25 25 25 26 24 7	25 25 25 25 24 7	25 25 24 7	25 25 25 25 24 7	25 25 24 7	25 25 25 26 24 7	25 25 24 7	25 25 25 25 24 7
HAP Description HAP CSS Number HAP Proceedings HAP Findson in Road Dust by Weight HAP Findson in Road Dust by Weight Generating Data Percent Flad Consumption: Dec-Feb Hard May Abrilliag Jahn-Jug Spendor Coperning Schedule: Hoursday Denytones Weiserypar Fagility Data Control Data	25 25 25 24 7 52	25 26 25 25 24 7	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 26 24 7	25 25 24 7 52	25 25 25 24 7 52
IASP Describion IASP CSS Number IASP FIGS Number IASP FIGS Number IASP FIGS Describe IASP FIGS Describe IASP FIGS Describe IASP Consumption Describe IASP IASP IASP IASP IASP IASP IASP IASP	25 25 25 25 24 7	25 25 25 24 7	25 25 25 25 24 7	25 25 25 26 24 7	25 25 24 7	25 25 25 24 7	25 25 25 25 24 7	25 25 24 7	25 25 24 7	25 25 24 7	25 25 25 24 7	25 25 25 25 24 7	25 25 25 25 24 7	25 25 25 25 24 7	25 25 25 26 24 7	25 25 25 25 24 7	25 25 24 7	25 25 25 25 24 7	25 25 24 7	25 25 25 26 24 7	25 25 24 7	25 25 25 25 24 7
HAP Description HAP CSS Number of HAP CSS Number of HAP Findson in Road Dust by Weight HAP Findson in Road Dust by Weight Operating Lists  Percent Flad Consumption: Dec-Feb  Mark May Jah-Nug Spellow Operating Schedule: Hourydop  Operating Schedule: Hourydop  Weiselywer  Fagility Dust Contro Data Control Data Description Control Cont	25 25 25 24 7 52	25 26 25 25 24 7	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 26 24 7	25 25 24 7 52	25 25 25 24 7 52
IASP Describes IASP CSS Number IASP Findson in Road Duck by Weight IASP IASP IASP IASP IASP IASP IASP IASP	25 25 25 24 7 52	25 26 25 25 24 7	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 26 24 7	25 25 24 7 52	25 25 25 24 7 52
HAP Description HAP CSS Number of HAP CSS Number of HAP Findson in Road Dust by Weight HAP Findson in Road Dust by Weight Operating Lists  Percent Flad Consumption: Dec-Feb  Mark May Jah-Nug Spellow Operating Schedule: Hourydop  Operating Schedule: Hourydop  Weiselywer  Fagility Dust Contro Data Control Data Description Control Cont	25 25 25 24 7 52	25 26 25 25 24 7	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 26 24 7	25 25 24 7 52	25 25 25 24 7 52
IASP Describes IASP CSS Number IASP Findson in Road Duck by Weight IASP IASP IASP IASP IASP IASP IASP IASP	25 25 25 24 7 52	25 26 25 25 24 7	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 26 24 7	25 25 24 7 52	25 25 25 24 7 52
HAP Description HAP CSA Number HAP Fination in Road Dust by Weepit HAP Fination in Road Dust by Weepit Goperating Lata  Ferront Plant Consumption: Dec-freb Mark May Jah-May Jah-May Spendor Contrating Schedule: Hourystey Deprising Schedule: Hourystey Weepityles Fligible Dust Contratin Dust Control Description Control Description Minimum Dust Application of Control Minimum Dust Application of Control Minimum Dust Application of Control	25 25 25 24 7 52	25 26 25 25 24 7	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 26 24 7	25 25 24 7 52	25 25 25 24 7 52
IAP Described  IAP CSS Number  IAP Findson Road Dust by Weight  Coperating Data  Percent Find Consumption Des Felb  Bare Aller  Sep After  Sep After  Coperating State  Sep After  Coperating State After  Sep After  Coperating State After  Sep After  Coperating State After Afte	25 25 25 24 7 52	25 26 25 25 24 7	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 25 24 7 52 None
LAP Description HAP PCSS Number 1 HAP PCS Number 1 HAP PCSS Number	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 Nane	25 25 25 24 7 52 None	25 25 24 7 52 Nane	26 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 24 7 52 Nane	25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 25 24 7 52 Nane	25 25 24 7 52 Nane	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 26 24 7	25 25 24 7 52	25 25 25 24 7 52
IAP Description IAP CAS Number IAP CAS Number IAP Fraction Road Dust by Weight Coparting Data Percent Fad Commission Describe Annual Road IAP Commission Describe Annual Road IAP Commission Describe Annual Road IAP Commission IAP Co	25 25 25 24 7 52	25 26 25 25 24 7	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 25 24 7 52	25 25 25 26 24 7 52	25 25 25 25 24 7 52	25 25 24 7 52	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 25 24 7 52 None
HAP Describtion HAP CSS Number HAP Frestorion Road Dust, by Weight Goperating Data Percent Floor Consumption Des-Feb Mark Hap Frestorion Road Dust, by Weight Goperating Data Mark Hap John-Mag Sopation Coperating School Wester Hap	25 25 25 24 7 7 52 None	25 25 26 26 24 7 7 52 None	25 25 25 24 7, 52 None	25 25 25 24 7 7 52 None	25 25 24 7 52 None	26 25 25 24 7 52 None	25 25 25 25 24 7 7 52 None	25 25 24 7 52 Nane	25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 25 24 7 52 None	25 25 24 7 52 Nano	25 25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 25 24 7 52 None
IAPD Description IAPD Cast Name IAPD CAS NAM	25 25 25 24 7 7 52 None	25 25 25 26 24 7 52 None	25 25 25 24 7 52 Nane	25 25 25 24 7 7 52 None	25 25 24 7 52 None	26 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 24 7 52 Nane	25 25 24 7 52 None	75 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7, 52 None	25 25 25 25 24 7 52 None None 929 280	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 26 24 7 52 Nane	25 25 24 7 52 Nane	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None
IAP Described  HAP CSS Number  HAP Frishon Road Dut by Weight  HAP Frishon Road Dut by Weight  HAP Frishon Road Dut by Weight  Friends Faid Commission Dec Fells  Sep-Net  Sep-Net  Comming Schodate Househop  Denylweis  Faighten Bust Contin Bus  Great Contin Bus  Marine May Polyment  Marine May Polyment of Control  Marine May Polyment of Control  Marine May Polyment of Control  America Park Application of Control  America Park Polyment Endeside  Air Parliams Endeside  HAP Endeside Technological  HAP Endeside Technological  Endeside Control  Endesid	25 25 25 24 7 7 52 None	25 25 26 26 24 7 7 52 None	25 25 25 24 7, 52 None	25 25 25 24 7 7 52 None	25 25 24 7 52 None	26 25 25 24 7 52 None	25 25 25 25 24 7 7 52 None	25 25 24 7 52 Nane	25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 25 24 7 52 None	25 25 24 7 52 Nano	25 25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 7 52 None
IAPD Description IAPD CSS Number IAPD CSS Numb	25 25 25 24 7 7 52 None	25 25 25 26 24 7 52 None	25 25 25 24 7 52 Nane	25 25 25 24 7 7 52 None	25 25 24 7 52 None	26 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 24 7 52 Nane	25 25 24 7 52 None	75 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 24 7, 52 None	25 25 25 25 24 7 52 None None 929 280	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 25 26 24 7 52 Nane	25 25 24 7 52 Nane	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None
IAPP Description IAPP CSS Number IAPP CSS Number IAPP Friston in Road Dust by Weight IAPP IAPP IAPP IAPP IAPP IAPP IAPP IAPP	25 25 25 24 7 52 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	25 25 25 26 24 7 7 52 None	25 25 25 24 7 52 Nane	25 25 25 26 24 7 52 None	25 25 24 7 52 None	26 25 25 24 7 7 52 None	25 25 25 22 24 24 7 52 None None	25 25 24 7 52 Nane	25 25 24 7 52 None 17 11 220 1.68	9 29 138 0 32	25 25 25 24 7 7 52 None	25 25 25 24 7, 52 None	25 25 25 24 7 7 52 None None 9 29 2 20 0 64	25 25 26 27 7 52 Mone 9 29 134 031	25 25 25 24 7 62 None	25 25 25 25 24 7 7 52 Mane Mane 929 124 029	25 25 24 7 52 Nane	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None
IAP Described  IAP CSS Number  IAP CSS Number  IAP CSS Number  IAP Freston Road Dust by Weight  Operating Data  Percent Faul Committee Data  By Market  Ash-Mag  Operating School  Ash-Mag  Operating School  Ash-Mag  Operating School  Operating Sch	25 25 25 24 7 5 52 14 7 5 52 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28 29 29 24 7 52 None 0.12 0.19 0.13	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 24 7 52 None	26 25 25 24 7 52 None 0 83 0 25 0 19	25 25 25 26 27 7 52 None	25 25 24 7 52 Nane Nane 0.70 0.22 0.13	25 25 24 7 52 None None 17 11 2 20 1 85	9 29  1.38  0.32  AP-42 Sec 13 2	25 25 25 24 7 52 None	25 25 25 24 7, 52 None	25 25 25 24 7 7 52 None None 9 29 28 0 0 54 2 AP-42, Sec 13:2	25 25 26 26 27 7 52 52 52 52 52 52 52 52 52 52 52 52 52	25 25 25 24 7 52 None	25 25 25 24 7 7 52 None None 124 029	25 25 24 7 52 Nane Nane 9.29 0.51 0.12	25 25 25 25 26 27 7 7 52 2	25 25 24 7 52 None 929 129 030	25 25 25 24 7 52 None 929 0.85 0.19	25 25 24 7 52 None 9 29 0 53 0 12	25 25 25 24 7 52 None None 9 29 0 59 0 14
IAP Description IAP CAS Name IAP Freshon Rose Dust by Weight IAP Freshon Rose Dust by Weight IAP Freshon Rose Dust by Weight IAP CAS Name IAP CAS NA	25 25 25 24 7 52 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	25 25 25 26 24 7 7 52 None	25 25 25 24 7 52 Nane	25 25 25 26 24 7 52 None	25 25 24 7 52 None	26 25 25 24 7 7 52 None	25 25 25 22 24 24 7 52 None None	25 25 24 7 52 Nane	25 25 24 7 52 None 17 11 220 1.68	9 29 138 0 32	25 25 25 24 7 7 52 None	25 25 25 24 7, 52 None	25 25 25 24 7 7 52 None None 9 29 2 20 0 64	25 25 26 27 7 52 Mone 9 29 134 031	25 25 25 24 7 62 None	25 25 25 25 24 7 7 52 Mane Mane 929 124 029	25 25 24 7 52 Nane	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 24 7 52 None	25 25 25 24 7 52 None
IAP Described  IAP CSS Number  IAP CSS Number  IAP CSS Number  IAP Freston Road Dust by Weight  Operating Data  Percent Faul Committee Data  By Market  Ash-Mag  Operating School  Ash-Mag  Operating School  Ash-Mag  Operating School  Operating Sch	25 25 25 24 7 5 52 14 7 5 52 14 15 15 15 15 15 15 15 15 15 15 15 15 15	25 25 26 26 27 7 7 52 None 0 112 0 112 0 119 0 113 AP-42, Soc 13 2 0 02	25 25 25 27 27 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28	25 25 25 25 26 24 7 7 52 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	25 29 24 7 52 Nane 001 001 401 001 000 AP-42 Sec 132	25 25 25 24 7 52 Mone    None    0.83    0.26   0.19    AP-42 Sec 13 2 0.16	25 25 25 25 24 7 52 Name	25 25 24 7 52 Name Name 0.70 0.22 0.13 AP-42 Sec 13.2 0.14	25 25 24 7 52 None 17.11 17.11 2.20 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65	9 29  1 38 0 32  AP-42 Sec 13 2 2 22	25 28 25 24 7 52 None	25 25 25 24 7 52 None 9 23 1 51 0 37 2 22 2 3 2 4 7 5 2 2 4 7 7 5 2 2 4 7 7 7 7 8 7 8 7 8 7 8 8 9 8 9 8 9 8 9 8	26 25 25 25 25 24 7 52 2	25 25 25 25 24 7 52 None 1 34 0 31 2 AP-42, Sec 13 2 2 22	25 25 25 24 7 52 None	25 25 25 25 24 7 52 Mane Mane 929 124 029 124 222	25 25 24 7 52 8 Nano 979 051 012 4 AP-42 Sec 13.	923 None 923 251 058 424 7 52 None 923 251 058	929 Nune Nune 929 129 030 AP-42 Sec 132 222	9.29  0.85  0.85  0.85  0.85  0.19  0.85  0.19  0.22  0.22	9 29  None  9 29  AP-42 Sec 13.2  222	9 29  9 29  0 59  0 14  AP-42 Sec 132  222
IAP Description IAP CAS Name IAP Freshon Rose Dust by Weight IAP Freshon Rose Dust by Weight IAP Freshon Rose Dust by Weight IAP CAS Name IAP CAS NA	25 25 25 24 7 5 52 14 7 5 52 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28 29 29 24 7 52 None 0.12 0.19 0.13	25 25 25 24 7 52 None	25 25 25 24 7 52 None	25 25 24 7 52 None	26 25 25 24 7 52 None 0 83 0 25 0 19	25 25 25 25 24 7 52 None	25 23 24 7 52 Nane 070 022 013 AP-42 Sec 132 014	25 22 24 7 52 Note 17.11 2.20 1.66 AP-42, Sec 13:381	929  138  032  AP-42 Sec 132  0328	25 23 25 24 7 7 52 None	25 25 25 24 7 7 52 None \$2 \$ None \$2 \$ \$ 161 0.37 \$ 2.22 \$ 2.4 7 7 5.2 \$ \$ 8.20 \$ 1.00 1.00	26 25 25 24 7 7 52 2	25 25 25 24 7 52 Mone Mone Mone Mone Mone Mone Mone Mone	25 25 26 24 7 52 Mone Mone Mone Mone Mone Mone Mone Mone	9 22 124 7 52 152 24 7 52 152 152 152 152 152 152 152	25 25 24 7 52 Nane Nane 19.79 0.12 AP-42 Sec 13:	9 29 P-42 Sec 132 2 AP-42 Sec 132 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	929 129 030 AP42 Sec 132 24 7 7 52 Name	9 29 9 0 85 0 19 1 AP-42 Sec 13 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25 25 24 24 7 52 None None P 29 0 53 0 12 AP-42 Sec 13,2 2 22 2 22 0 127	9 29 0 59 0 59 0 70 10 70
IAP Described  HAP CAS Number  HAP Freston Road Dust by Wegel  HAP Freston Road Dust by Wegel  HAP Freston Road Dust by Wegel  HAP Freston Road Dust  HAP Freston Road Dust  HAP CAS Number  HAP Committee Road  HAP Committee Road  HAP HAP  HAP HAP  HAP HAP  HAP HAP HAP HAP  HAP HAP HAP HAP HAP  HAP HAP HAP HAP HAP HAP  HAP HAP HAP HAP HAP HAP  HAP HAP HAP HAP HAP HAP HAP  HAP HAP HAP HAP HAP HAP HAP  HAP HAP HAP HAP HAP HAP HAP HAP HAP  HAP HAP HAP HAP HAP HAP HAP HAP HAP HAP	25 25 25 24 7 5 52 14 7 5 52 14 15 15 15 15 15 15 15 15 15 15 15 15 15	25 25 26 26 27 7 7 52 None 0 112 0 112 0 119 0 113 AP-42, Soc 13 2 0 02	25 25 25 27 27 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28	25 25 25 25 26 24 7 7 52 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	25 29 24 7 52 Nane 001 001 401 001 000 AP-42 Sec 132	25 25 25 24 7 52 Mone    None    0.83    0.26   0.19    AP-42 Sec 13 2 0.16	25 25 25 25 24 7 52 Name	25 25 24 7 52 Name Name 0.70 0.22 0.13 AP-42 Sec 13.2 0.14	25 25 24 7 52 None 17.11 17.11 2.20 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65	9 29  1 38 0 32  AP-42 Sec 13 2 2 22	25 28 25 24 7 52 None	25 25 25 24 7 52 None 9 23 1 51 0 37 2 22 2 3 2 4 7 5 2 2 4 7 7 5 2 2 4 7 7 7 7 8 7 8 7 8 7 8 8 9 8 9 8 9 8 9 8	26 25 25 25 25 24 7 52 2	25 25 25 25 24 7 52 None 1 34 0 31 2 AP-42, Sec 13 2 2 22	25 25 25 24 7 52 None	25 25 25 25 24 7 52 Mane Mane 929 124 029 124 222	25 25 24 7 52 8 Nano 979 051 012 4 AP-42 Sec 13.	923 None 923 251 058 424 7 52 None 923 251 058	929 Nune Nune 929 129 030 AP-42 Sec 132 222	9.29  0.85  0.85  0.85  0.85  0.19  0.85  0.19  0.22  0.22	9 29  None  9 29  AP-42 Sec 13.2  222	9 29  9 29  0 59  0 14  AP-42 Sec 132  222
IAPP Described HAPP CSS Number 1 HAPP CSS Number 1 HAPP Freshoon Road Dust by Weight Coparting Data Park 1 HAPP Freshoon Road Dust by Weight Coparting Data Park 1 HAPP Freshoon Road Dust 1 HAPP Land Road Road Road Road Road Road Road Roa	25 25 25 24 7 52 None None	25 25 25 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	25 25 25 25 24 7 7 7 2	25 25 25 26 24 7 7 5 None None	25 25 25 24 7 7 2 52 1 None None None None None None None None	75 25 25 24 7 52 24 7 52 2	25 25 25 25 24 7 52 None	25 23 24 7 52 Nane 070 022 013 AP-42 Sec 132 014	25 22 24 7 52 Note 17.11 2.20 1.66 AP-42, Sec 13:381	929  138  032  AP-42 Sec 132  0328	25 23 25 24 7 7 52 None	25 25 25 24 7 7 52 None \$2 \$ None \$2 \$ \$ 161 0.37 \$ 2.22 \$ 2.4 7 7 5.2 \$ \$ 8.20 \$ 1.00 1.00	26 25 25 24 7 7 52 2	25 25 25 24 7 52 Mone Mone Mone Mone Mone Mone Mone Mone	25 25 26 24 7 52 Mone Mone Mone Mone Mone Mone Mone Mone	9 22 124 7 52 152 24 7 52 152 152 152 152 152 152 152	25 25 24 7 52 Nane Nane 19.79 0.12 AP-42 Sec 13:	9 29 P-42 Sec 132 2 AP-42 Sec 132 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	929 129 030 AP42 Sec 132 24 7 7 52 Name	9 29 9 0 85 0 19 1 AP-42 Sec 13 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25 25 24 24 7 52 None None P 29 0 53 0 12 AP-42 Sec 13,2 2 22 2 22 0 127	9 29 0 59 0 59 0 70 10 70
IAP Described  IAP CAS Name  I	25 25 25 26 27 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	26 26 26 27 7 7 5 5 2	26 29 29 29 29 29 29 29 29 29 29 29 29 29	25 25 25 26 24 7 7 25 25 26 26 27 26	25 25 24 7 7 52 24 7 7 52 2	26 26 26 27 7 26 27 7 7 52 28 28 28 28 28 28 28 28 28 28 28 28 28	25 25 25 26 27 7 7 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7	25 25 24 7 7 52 None None None None None None None None	25 29 24 7 7 52 None 17.11 220 166 AP-42, Sec 13: 361 0 465 0 350	75 25 24 7 7 52 More More 138 032 AP-42 Set 112 0328 0376	25 23 25 24 7 7 52 None	25 25 25 25 24 7 7 52 Note Note 151 037 24 151 037 22 24 25 24 151 037 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	25 25 25 24 7 7 52 24 7 7 52 2	25 25 25 25 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	929 None 929 101 929 101 929 101 929 222 222 9240 9055	25 25 25 26 27 28 24 24 27 7 25 22 24 28 22 24 22 24 26 26 27 26 28 27 26 27 2	25 23 74 7 52 Nane 929 051 012 AP-42 Set 13 222 0122 0028	25   25   25   27   27   27   27   27	25 25 24 7 7 52 24 7 7 52 24 7 7 52 24 7 7 7 52 24 7 7 7 52 24 7 7 7 52 24 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	929  085  015  177  177  187  187  187  187  187  1	25 25 26 27 27 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29	929 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194
ISAP Describeds  ISAP Describeds  ISAP Fraction is Road Dutt by Weght  Percent Full Consumption. Dec Feb  March  Sep-Nex  Comming Schedule: Housetely  Deylwheel  Regilive Dutt Centric Data  Comming Schedule: Housetely  Regilive Dutt Centric Data  Comming Schedule: Housetely  Memma Day Agendates of Control  Memma Day Agendates of Control  Memma Day Agendates of Control  America Panal Agendation of Control  America Panal Agendation of Control  And Februaries Edited Schedule  Schedule Schedule: Housetely  Schedule Schedule: Housetely  Schedule Schedule  Schedule Schedule  Schedule Schedule  Answell empositos (Schrift)  Movide empositos (Schrift)  Movide empositos (Schrift)  Movide Edited (Schedule)  Schedule Schedule  Schedule Sche	25 25 25 26 27 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	26 26 26 27 7 7 5 5 2	26 29 29 29 29 29 29 29 29 29 29 29 29 29	25 25 25 26 24 7 7 5 None None	25 25 24 7 7 52 24 7 7 52 2	26 26 26 27 7 26 27 7 7 5 2 2 1 None 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25 25 25 26 27 7 7 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7	25 25 24 7 7 52 None None None None None None None None	25 29 24 7 7 52 None 17.11 220 166 AP-42, Sec 13: 361 0 465 0 350	75 25 24 7 7 52 More More 138 032 AP-42 Set 112 0328 0376	25 23 25 24 7 7 52 None	25 25 25 25 24 7 7 52 Note Note 151 037 24 151 037 22 24 25 24 151 037 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	25 25 25 24 7 7 52 24 7 7 52 2	25 25 25 25 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	929 None 929 101 929 101 929 101 929 222 222 9240 9055	25 25 25 26 27 28 24 24 27 7 25 22 24 28 22 24 22 24 26 26 27 26 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 28 27 26 2	25 23 74 7 52 Nane 929 051 012 AP-42 Set 13 222 0122 0028	25   25   25   27   27   27   27   27	25 25 24 7 7 52 24 7 7 52 24 7 7 52 24 7 7 7 52 24 7 7 7 52 24 7 7 7 52 24 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	929  085  015  177  177  187  187  187  187  187  1	25 25 26 27 27 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29	929 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194 0 194

Coal Creek Environmental Associates, LLC 020101 12